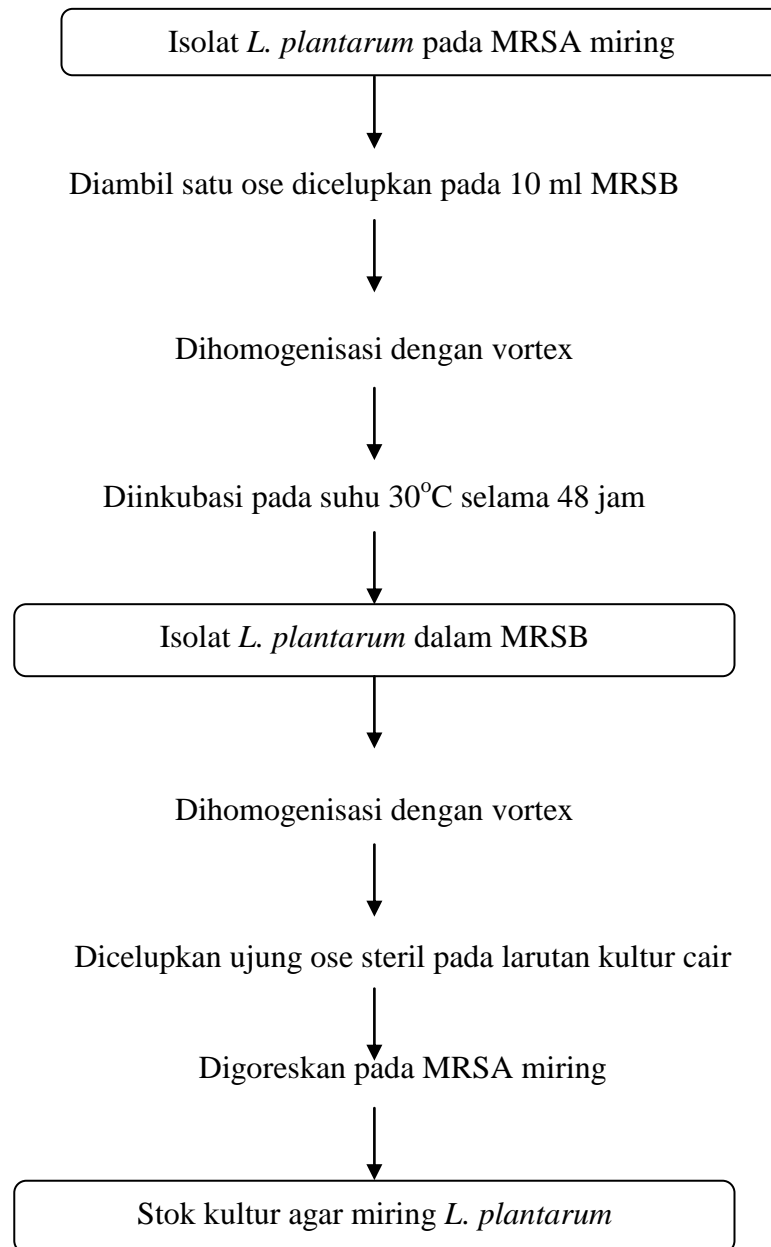
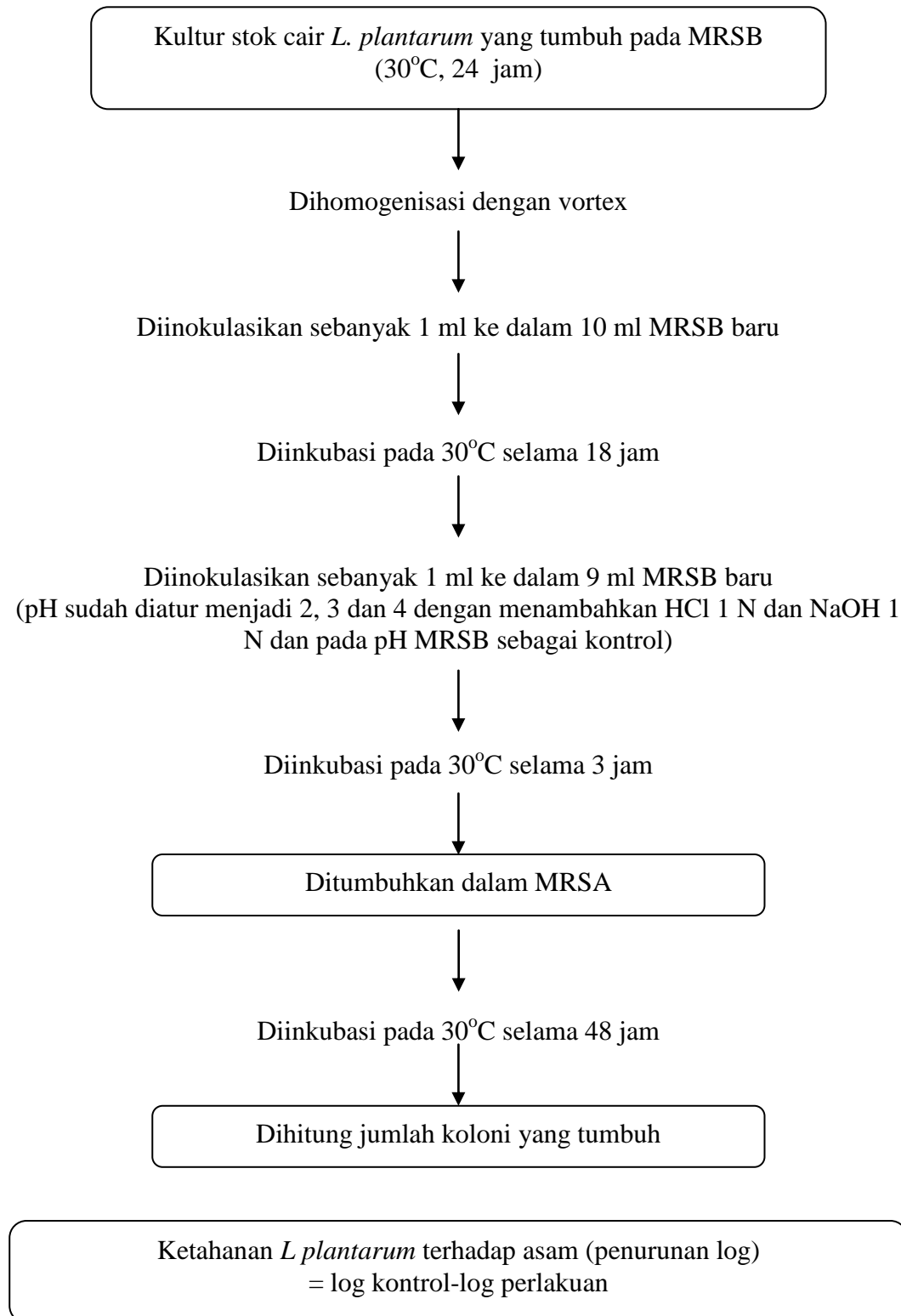


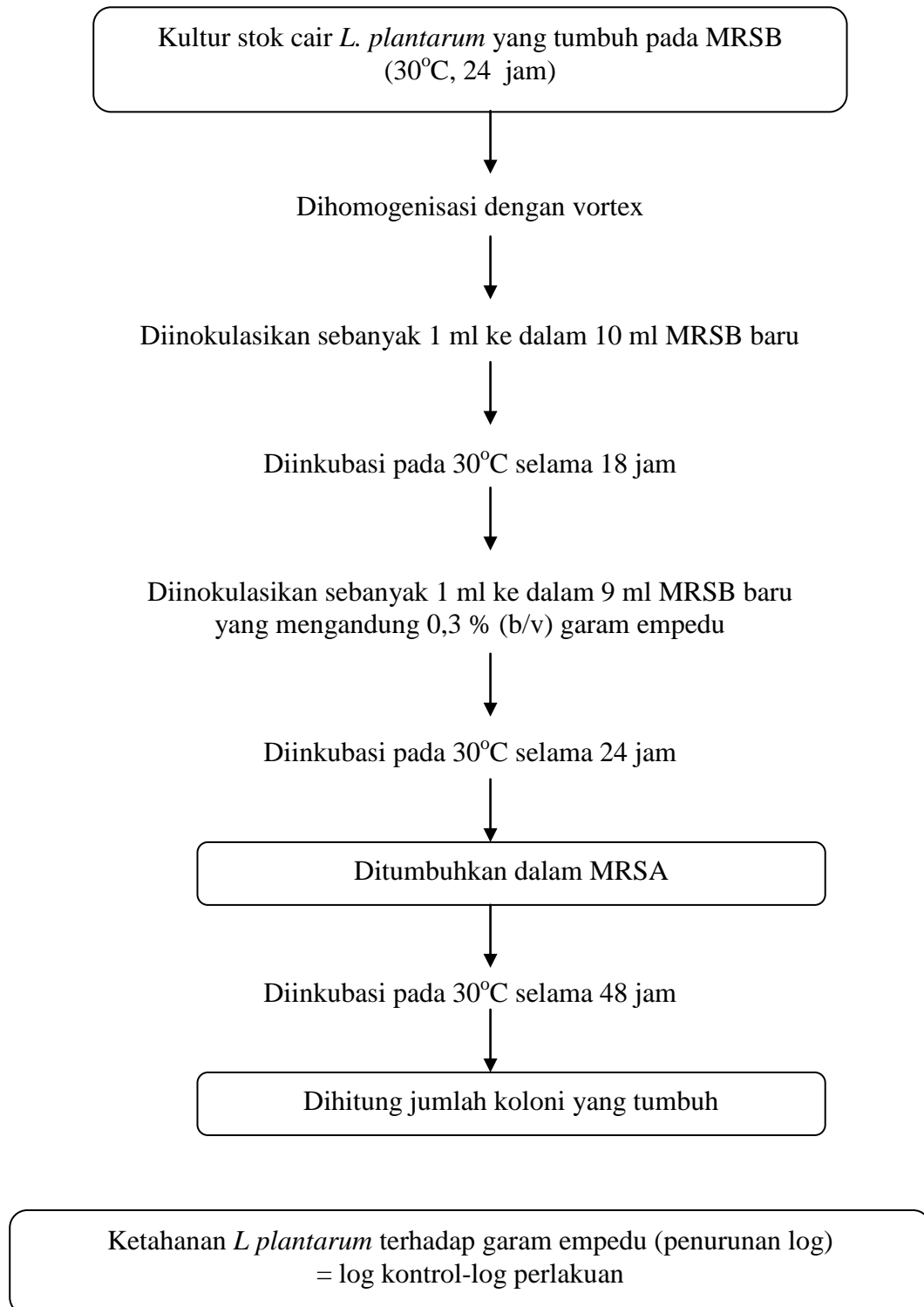
**Lampiran 1. Skema Pembuatan Stok Kultur Agar Miring**  
(Ngatirah *et al.*, 2000)



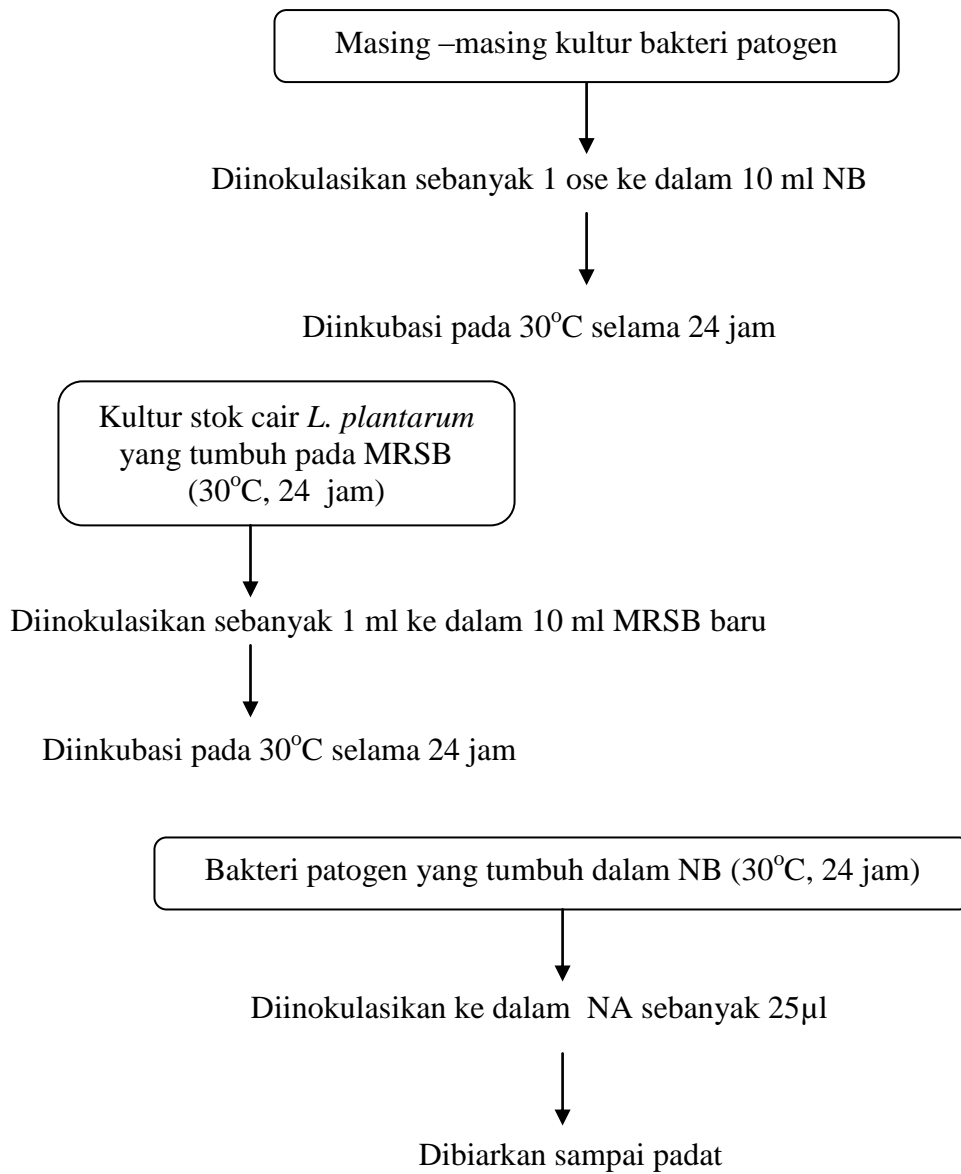
**Lampiran 2. Skema Uji Ketahanan *L. plantarum* Terhadap Asam**  
(modifikasi Zavaglia, *et al.*, 1998 dalam Evanikastri, 2003)

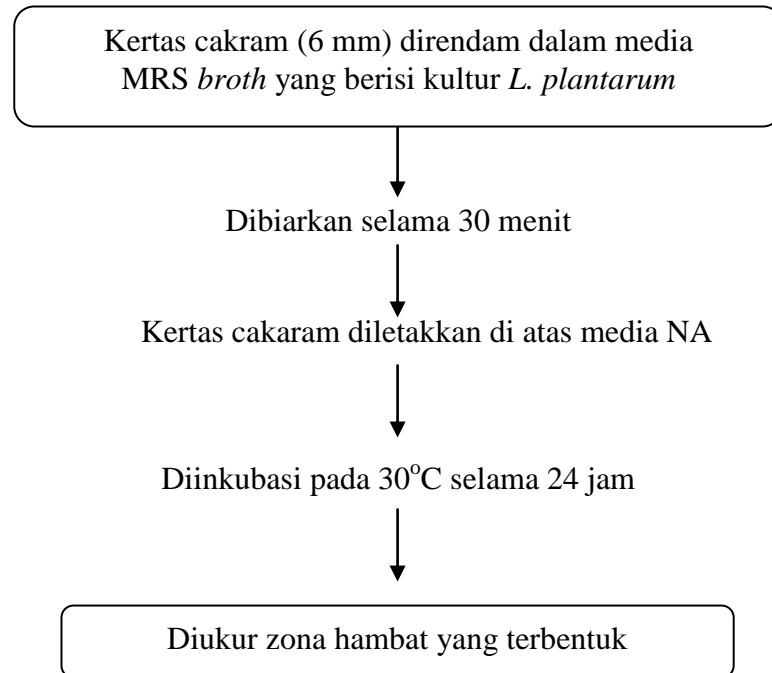


**Lampiran 3. Skema Uji Ketahanan *L. plantarum* Terhadap Garam Empedu 0,3% (b/v) (modifikasi Ngatirah *et al.*, 2000 dalam Kusumawati, 2002)**



**Lampiran 4. Skema Uji Penghambatan *L. plantarum* Terhadap Bakteri Patogen (modifikasi Ngatirah *et al.*, 2000 dalam Kusumawati, 2002)**





**Lampiran 5. Data Hasil Uji Ketahanan *L. plantarum* Terhadap Asam, Garam Empedu 0,3% (b/v) dan Penghambatan Terhadap Bakteri Patogen**

Data Hasil Uji Ketahanan *L. plantarum* Terhadap Asam

pH	Jumlah BAL (cfu/ml)			Rata-rata
	Ulangan I	Ulangan II	Ulangan III	
2	$4,5 \cdot 10^6$	$7,1 \cdot 10^7$	$4,2 \cdot 10^6$	$2,7 \cdot 10^7$
3	$4,8 \cdot 10^7$	$6,2 \cdot 10^5$	$4,4 \cdot 10^7$	$3 \cdot 10^7$
4	$1,3 \cdot 10^8$	$7 \cdot 10^7$	$6,3 \cdot 10^7$	$4,9 \cdot 10^7$
Kontrol (MRSB)	$9 \cdot 10^8$	$2,9 \cdot 10^8$	$4,1 \cdot 10^8$	$5,3 \cdot 10^8$

Rata-rata inokulum:  $8,8 \cdot 10^8$

Data Hasil Uji Ketahanan *L. plantarum* Terhadap garam empedu 0,3% (b/v)

Perlakuan	Jumlah BAL (cfu/ml)			Rata-rata
	Ulangan I	Ulangan II	Ulangan III	
Kontrol (MRSB)	$2,9 \cdot 10^{10}$	$5 \cdot 10^{10}$	$9,2 \cdot 10^9$	$2,9 \cdot 10^{10}$
Garam <i>bile</i>	$9,1 \cdot 10^9$	$5,3 \cdot 10^8$	$7 \cdot 10^9$	$5,5 \cdot 10^9$

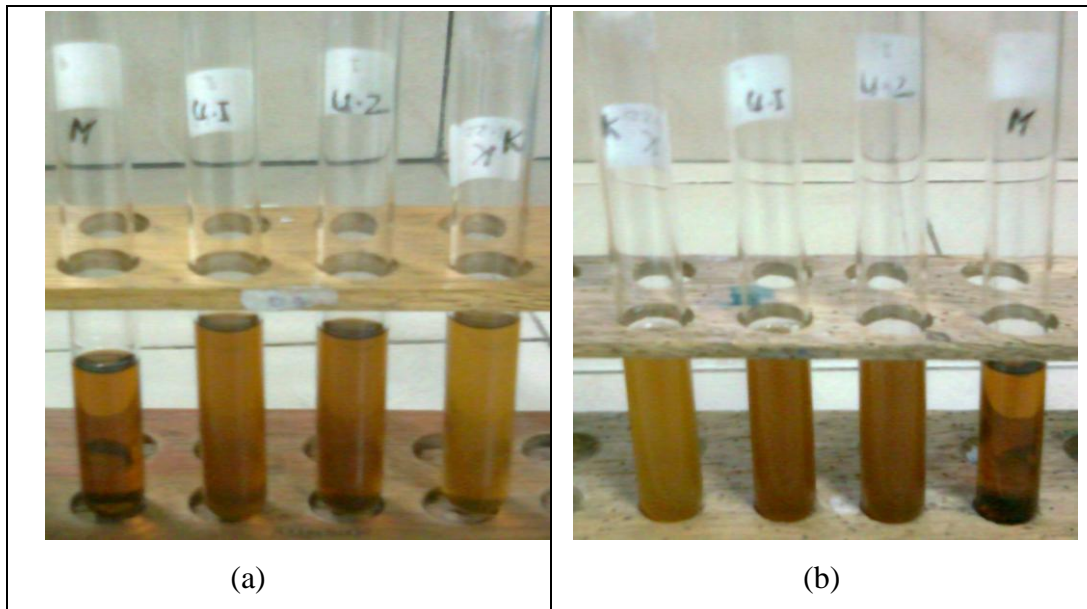
Rata-rata inokulum:  $6,7 \cdot 10^8$

Uji Penghambatan *L. plantarum* Terhadap Bakteri Patogen

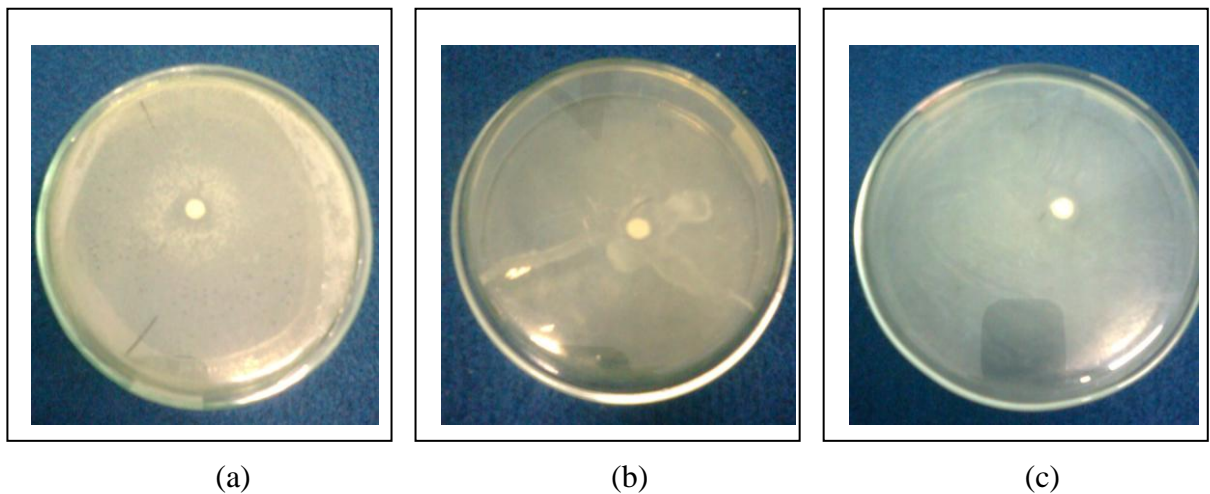
Bakteri patogen	Diameter zona hambat (mm)			Rerata (mm)
	Ulangan I	Ulangan II	Ulangan III	
<i>Staphylococcus aureus</i>	5	8	6	6,3
<i>Salmonella thypi</i>	3	4	5	4
<i>Eschericia coli</i>	3	3	4	3,3



**Lampiran 7. Gambar Pengamatan Uji Ketahanan *L. plantarum* Terhadap Garam Empedu 0,3% (b/v) dan Penghambatan Terhadap Bakteri Patogen**



Gambar 3. Pengamatan Uji Ketahanan *L. plantarum* Terhadap garam empedu 0,3% (b/v). (a) *L.plantarum* sebelum inkubasi. (b) *L.plantarum* setelah inkubasi.



Gambar 4. Pengamatan Uji Penghambatan *L. plantarum* Terhadap Bakteri patogen (a) *Staphylococcus aureus*, (b) *Salmonella typhi*, (c) *Escherecia coli*



### Lampiran 8. Komposisi Media

No	Media	Komposisi (g/L)
1	deMan Rogosa Sharpe (MRS) Broth MERCK GaA, Germany	52,2 g/L Peptone from casein 10,0 Meat extract 8,0 Yeast extract 4,0 D(+) Glucose 20,0 Di-potassium hydrogen phosphate 2,0 Tween 80 1,0 Di-ammonium hydrogen citrate 2,0 Sodium Acetate 5,0 Magnesium sulphate 0,2 Manganese sulphate 0,04 pH 5,7±0,2 25 °C Sterilisasi 121°C 15 menit
2	deMan Rogosa Sharpe (MRS) Agar MERCK GaA, Germany	66,2 g/L Peptone from casein 10,0 Meat extract 8,0 Yeast extract 4,0 D(+) Glucose 20,0 Di-potassium hydrogen phosphate 2,0 Tween 80 1,0 Di-ammonium hydrogen citrate 2,0 Sodium Acetate 5,0 Magnesium sulphate 0,2 Manganese sulphate 0,04 Agar 14,0 pH 5,7±0,2 25 °C Sterilisasi 121°C 15 menit
3	Nutrien Broth (NB) MERCK GaA, Germany	13 g/L ‘Lab lemco powder 10,0 Yeast extract 2,0 Peptone 5,0 Sodium chloride 5,0 pH 7,4±0,2
4	Nutrien Broth (NA) Oxoid LTD Basingstoke Hampshire, England	28 g/L ‘Lab lemco powder 10,0 Yeast extract 2,0 Peptone 5,0 Sodium chloride 5,0 Agar 15,0 pH 7,4±0,2

**Lampiran 9. Gambar Alat Penelitian**

Oven



Timbangan digital



Hot plate



Autoclave



Laminar Air Flow



pH Indikator



Colony counter



Shaker water bath



Vortex



Mikropipet